



## Bluetooth 5.0 Nano USB Adapter

BT-8500

### FEATURES

- **Bluetooth 5.0:** BQB Certified
- **Dual Mode:** Supports both Classic (BR/EDR) and Low Energy (LE) modes
- **Data Rate:** Up to 3Mbps (BR/EDR) or 2Mbps (LE)
- **Small and Stylish Design:** Extremely small Bluetooth 5.0 Adapter
- **LE Support:** Features LE (Low Energy) mode to connect battery-powered peripherals
- **Long Range Support:** Supports longer distance connectivity compared to former v4.2
- **Plug-and-Play:** Supports plug-and-play on Windows system
- **Supported OS:** Windows and Linux

### OVERVIEW

The BT-8500 is a Nano USB adapter with BQB certification that supports dual mode (BR/EDR + LE). In BR/EDR mode, the BT-8500 supports a maximum data rate of 3 Mbps, while in LE mode, it supports 125Kbps for long-range connections.

The BT-8500 is a portable ultra-small USB adapter that can be plugged into any laptop or desktop USB port to pair with Bluetooth devices within a range of 40 meters.

Moreover, the BT-8500 can be customized to develop various functions and integrate them into embedded systems for different services and applications.

### Bluetooth 5.0 BQB Certified

BT-8500 is BQB certified, which allows users to easily pair with other BQB certified devices on desktops, laptops, and embedded systems without any interoperability issues. The Bluetooth logo is only available for products that have passed the Bluetooth qualification process and earned the BQB certification, ensuring high compatibility and quick connections.

### Bluetooth Classic and LE mode

The BT-8500 Bluetooth 5.0 USB adapter is fully integrated with Classic (BR/EDR) and LE (Low Energy) modes, offering data rates of up to 3Mbps for Classic mode and longer range with lower power consumption in LE mode.

### Versatile Wireless Application

The BT-8500 supports dual mode, which allows for the integration of BT-8500 into embedded systems to develop versatile functions based on the client and server relationship for various services and applications. As the IoT expands, Bluetooth 5.0 will continue to expand across different devices we use daily, making BT-8500 an excellent choice for developers..

### Tiny Size

The ultra-small design of the BT-8500 USB adapter makes it compact and lightweight, which is suitable for any user. The tiny size allows for easy integration into embedded system without any space concerns, and the lightweight means no extra burden while carrying it outside with your laptop.

## SPECIFICATIONS

## HARDWARE

Interface	1 x USB 2.0 Type A
Antenna	1 x Internal PiFa Antennas
Dimensions	7.1 (H) x 14.9 (W) x 17.4 (D) mm
Weight	2g

## WIRELESS

Standard	Bluetooth Core Specification v5.0 compliant
Frequency Band	2.4GHz: 2.4000~2.4835GHz *Subject to local regulations.
Maximum Data Rate/Speed	<ul style="list-style-type: none"> <li>• Classic BR/EDR: 3Mbps</li> <li>• LE: 2Mbps</li> </ul>
Transmit Power	8dBm (Max.)
Receive Sensitivity	-94dBm (2Mbps EDR) -87dBm (3Mbps EDR) -106dBm (125Kbps LE long range)

## OTHERS

Supported Operating System	<ul style="list-style-type: none"> <li>• Windows 8.1/10/11</li> <li>• Linux: kernel 2.6.32 ~ 5.3</li> </ul> *Additional version information may be announced on the EDIMAX website.	
Environmental Condition	Temperature: • Operating: 0~40°C (32~104°F) • Storage: -20~60°C (-4~140°F)	Humidity: • Operating: 10~90% (Non-condensing) • Storage: Max. 95% (Non-condensing)
Certification	CE, FCC, NCC, BSMI, BQB, IC	



Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.  
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